



# T-Mech Beam Scales and B8 Indicator

24639 - 24642

INSTRUCTION MANUAL

[www.monstershop.co.uk](http://www.monstershop.co.uk)



# SPECIFICATION

## PRODUCT DESCRIPTION

The T-Mech Beam Scales are a high quality weighing device suitable for use in an industrial, logistical and agricultural environment. The digital display screen allows these scales to work easily and quickly whilst the flat platform allows you to easily and accurately weigh items. With the ability to weigh up to 3000kg/3 tonnes using a variety of functions, these sturdy scales are an essential appliance for accurately weighing heavy items.

## PRODUCT SPECIFICS

MODEL:	B8 digital weighing indicator
ACCURACY CLASS:	Class 3
MAX VERIFIED COUNTS:	n=3000
OPERATING TEMPERATURE:	-10 - 40° C
POWER SUPPLY:	AC220V/50HZ , Battery: 7.2V/2AH
SENSOR VOLTAGE:	DC 5V
DISPLAY:	6 bits LCD/LED display
SERIAL COMMUNICATION	
INTERFACE:	RS232 signal transmission distance ≤ 20m
STORAGE TEMPERATURE:	-25 - 55° C

### Beams:

**Dimensions:** 120cm W x 12cm D x 6cm H (8cm with feet attached)

**Weight:** 22 KG

**Capacity:** 3000kg / 3 tonnes

**Measurements:** 0.5kg increments

## ITEM CONTENTS

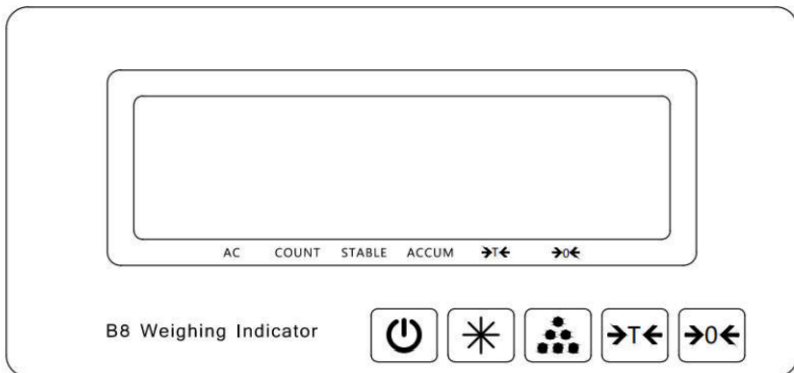
- 1 x T-Mech Beam Scales 120cm
- 4 x support feet
- 1 x B8 digital display indicator
- 1 x Mounting bracket components
- 1 x Splitter cable to connect scales to the display
- 1 x Charging cable with 13 amp 3 pin plug.

# SPECIFICATION

## PRODUCT FEATURES



## INDICATOR DIAGRAM








LCD Display panel



# SPECIFICATION

## KEYPAD FUNCTIONS

	Press this key to turn the indicator ON or OFF
	Press for 3 seconds to enter configuration mode.
	Press shortly to operate the manual accumulation function. Press for 3 seconds to enter counting function. While in self-test mode, press shortly to enter calibration mode.
	Changes parameter value in configuration mode or sets present tare value.
	Sets display to zero when pressed in weighing mode.

# SAFETY ADVICE




## SAFE WORKING PRACTICE

Please read through the Safe Working Practice to ensure prevention of injury or damage to the device.

- Do not use this product for anything other than its intended purposes.
- Ensure you have read and fully understood the instruction manual and safety advice before using this product.
- Do not use the machine if the adaptor wire is frayed or damaged.
- To charge the battery use the included charging cable. Once the battery is fully charged unplug the cable, as prolonged operation from the mains will damage the battery.
- When the device is not in use ensure that the power plug is removed from the socket. This will prevent damage to the appliance through power surges.
- Do not operate or store the digital display near heat sources or in hot environments. The operating temperature for the scales and display is between  $-10^{\circ}\text{C}$  and  $40^{\circ}\text{C}$  with a maximum humidity of 85%. Using the scales outside of these temperatures may lead to damage.
- Do not use the scales in dusty areas as this can lead to damage in the display unit.
- Do not overload the scales. This will cause damage to the appliance and will prevent it from working correctly.
- Ensure the display is kept away from water sources as it is not waterproof.
- Both the scales and the display should be fully sealed when in use. Do not attempt to remove or adjust any parts without expert attention.
- Ensure the display and wires are kept clear from heavy objects as this will cause damage and prevent them from working.
- Do not carry out any welding or other similar work on the scale platform.

# USER GUIDE



## CALIBRATION INSTRUCTIONS




1. To calibrate, please start by turning the indicator on by pressing the ON/OFF key.
2. The display will begin to self test from [000000] to [999999]. While this is happening, press and hold the  key. The display will then show , and the scales will enter the calibration process. Once that is done, release the key.
3. Press the  key to set the division value.

Display	Parameter
【d x】	1
	2
	5
	10
	20
	50

4. Next, press  key for decimal point setting. Press  key to select a decimal point.

Display	Parameter
【P x】	0
	0.0
	0.00
	0.000

5. Press  key to set Max. Capacity. Continue to press this key to choose a digit and press the  key to change the digit.


Display	Parameter
【FULL  】	Press  to enter max capacity setting
【02000.0】	Press  for moving digit bit.
	Press  for changing of the digit.




# USER GUIDE


## CALIBRATION INSTRUCTIONS

6. Press the  key for zero point calibration menu.

Display	Parameter
<b>【noLoAd】</b>	Wait for the light to stabilize

7. Press  key again for calibration setting menu. Follow the steps below.

<b>【AdLoAd】</b>	Press  to enter calibration setting
<b>【00000.0】</b>	The last digit is flashing
<b>【00200.0】</b>	Press  for moving the digit bit.
	Press  for changing of the digit Then put the settled value weight onto the scale platform. For example 200kg weights

8. Press  once more to confirm. To end the calibration process, open the indicator's back cover. You will find two small screws, as shown below.

9. Unscrew the 5mm screw to reveal the calibration switch. Unscrew the 4mm screw as this will be needed to press the calibration switch.

10. Take the 4mm screw and press it into the calibration switch for 1 second. The indicator has now saved the calibration settings, and has returned to the weighing mode.





# USER GUIDE



## CALIBRATION INSTRUCTIONS

11. Screw back the 5mm screw and the 4mm screw. Reseal as shown.




### TARE

Place the load on the scale platform when the display digits are stabilised.

Press the  key to tare. The display will show zero and the net weight indicating light will turn on. Take off the load, and press the  key again. This will clear the tare weight and the net weight indicating light will turn off.

### ZERO

Manual zero:

When the display value deviates from zero, but is still in range of the setting range ( $\pm 2\%$  of zero point at start-up) and the stable indicating light is still on, press  to zero, then the zero indicating light will turn on.

Auto zero:

When the display turns on and zero point ranges within  $\pm 10\%$  of the capacity, the indicator will zero automatically.





# USER GUIDE

## FUNCTIONS

### ANIMAL WEIGHING FUNCTION







Set the value on 2 in the P9 system setting then the animal weighing function will be switched on. Set the value on 1 to turn off the animal weighing function.

### ACCUMULATING FUNCTION

In weighing state, press  key to accumulate the current weight if the weight is over 20e, the weighing load is stable and the accumulating light is on. To return to weighing mode, press the same key again and the accumulating light will turn off. The scale will show current accumulating value when pressing the  key under the zero point mode. In accumulating mode, press  key to clear the accumulating value. When the  key is pressed again, it will return to weighing mode and the accumulating light will turn off.

Note: The scale must zero before next accumulation, otherwise the next accumulation will not be accurate.

### COUNTING FUNCTION

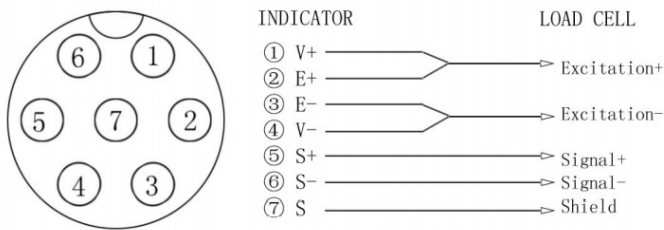
For counting mode, press  key and hold it while in weighing mode. The counting mode light will turn on and will display **【Count】**. After this press  key to enter and set the sampling numbers. This will display **【C00000】**. Press  key to shift after putting the samples on the scale platform. Press  key to set the sample's number value. After setting the value of the current sample number, press  key to perform the sampling and it will display the number. When the number shows on the display, it means you can operate the counting. The sampling date will be saved. Press  key to exit the counting mode.

Note: If the sample/unit weight is smaller than the minimum sampling/ unit weight, the sampling will fail. It will show the previous sampling data.

# USER GUIDE

## WIRING DIAGRAMS

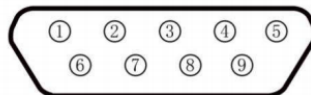
1. 7-core plug socket is used by default for load cells connection. The meaning of each pin is marked in the figure below.
2. Indicator use 6 wire Shield cables. If using 4 wire load cells, it is requested to short circuit V+ with E+ and short circuit V- with E-.
3. The connection between load cells and indicator must be reliable. The shield cables of the load cells must be reliably grounded.
4. Load cells and indicators are both electrostatic sensitive equipment, therefore anti-static measures must be taken when in use.



Load cells connection diagram

The instructions below inform on how to wire the scales correctly to either a 4 pin or 9 pin RS232 serial connection.

The cable provided will already be wired, however should the cable need rewiring please consult this page.

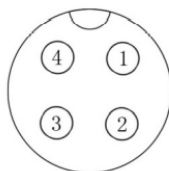


②: RXD

③: TXD

⑤: GND

B8S use 4 pin communication interface. Connection like below







① : RXD

②: TXD

⑤: GND

# USER GUIDE

## SYSTEM SETTINGS

In weighing mode, press  key for user settings mode. Press the  key to change the value. Press the  key to choose the next parameter. After all the parameter settings are done, press  key to exit the user setting mode.

### (1) Automatically power off

Display	Parameter	Instruction
【P1 1】	1	No automatic shutdown function
	2	10min
	3	20min
	4	30min

### (2) Baud rate setting

Display	Parameter	Instruction
【P2 1】	1	4800
	2	9600
	3	14400
	4	19200

### (3) RS232 output mode option

Display	Parameter	Instruction
【P3 1】	1	Continuous transmission
	2	Manual transmission
	3	Transmission when stable
	4	Transmission one time after it is stable

### (4) Power saving mode

Display	Parameter	Instruction
【P4 1】	1	LCD no backlight; LED no power saving function
	2	LCD automatically backlight; LED have power saving function
	3	LCD backlight keep lightning LED-

# USER GUIDE

## SYSTEM SETTINGS

### (5) Zero tracking range

Display	Parameter	Instruction
【P5 1】	1	0.5e/2s
	2	NO

### (6) Filtering depth

DISPLAY	Parameter	Instruction
【P6 1】	1	low
	2	middle
	3	high

### (7) Stable time

Display	Parameter	Instruction
【P7 1】	1	fast
	2	middle
	3	slow

### (8) Stable range

Display	Parameter	Instruction
【P8 1】	1	lower
	2	middle
	3	high

### (9) Animal weighing function switch on/off

Display	Parameter	Instruction
【P9 1】	1	Turn off the animal function
	2	Turn on the animal function

### (10) RS232 output protocol selection

Display	Parameter	Instruction
【P10 1】	-	Reference communication data

# USER GUIDE

## MAINTENANCE

- To prevent damage and prolong the life of this product, ensure the scales are not placed under direct sunlight and that the scales are always placed on a flat surface.
- Always store in a dry and clean place.
- Only clean by wiping with a moist soft cloth and if necessary, mild soap. Do not use any other cleaning products. Do not submerge in water. Keep away from water to prevent electric shock and damage to the product.

## BATTERY USAGE

- The battery will charge as long as the power cord is connected to the AC 220V.
- Before the first use of the scales, it is recommended to charge the battery for a minimum of 24 hours to ensure the battery is fully charged.
- When the scales indicate low battery under the voltage indicator, please plug the device in to charge. Avoid using the scales when the indicator shows low battery, as prolonged use in this state will shorten the life of the battery.
- Aim to charge the battery for a minimum of 12 hours per charge. If the device has not been used in a long time, charge it for a minimum of 20 hours before use, to protect the battery life.
- If the scales indicate LoB, it means the battery is very low. When this happens, the scales will stop weighing. Please turn the scales off and plug in to recharge the battery.

# TROUBLESHOOTING

## RESOLUTION GUIDE

### WHAT DO I DO IF THERE ARE MISSING PARTS FROM MY ORDER?

If there appears to be any part missing from your order, contact our friendly and helpful Customer Support Team within 7 days of receipt.

### ERRORS

ERR1	The AD value is too small when calibrated or the load cell capacity is too large
ERR2	The zero point is out of the range when calibrated
ERR3	The zero point is out of range upon starting or there is heavy weights
ERR5	There is no load weight in calibration mode
ERR7	The load cell cable connection is wrong, please check the connection method again
ERR8	Load cell signal is not stable
ERR9	The maximum range voltage is exceeded, please connect or select the combined sensor correctly
ERR10	Storage error

**FOR ALL OTHER ISSUES, PLEASE CONTACT OUR  
CUSTOMER SUPPORT TEAM.**

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For information regarding this device or other products from our Monster divisions please contact Sales.

#### SALES

TEL: 01347 878 888

EMAIL: hello@monstershop.co.uk

For queries about this device, warranty, returns or reporting faults please contact Support.

#### SUPPORT

TEL: 01347 878 887

EMAIL: help@monstershop.co.uk

Pour plus d'informations concernant cet appareil ou d'autres produits de nos divisions de Monster veuillez utiliser les détails suivants ci-dessous.

#### DÉPARTEMENT COMMERCIAL

TEL: 01347 878 888

EMAIL: bonjour@monstershop.eu

Pour les interrogations concernant cet appareil, la garantie, les retours ou les défauts de déclaration veuillez utiliser les détails suivants ci-dessous.

#### DÉPARTEMENT DE SOUTIEN

TEL: 01347 878 887

EMAIL: help@monstershop.co.uk

Para información sobre este dispositivo u otros productos de nuestras divisiones de Monster por favor use los siguientes detalles.

#### DEPARTAMENTO DE VENTAS

TEL: 01347 878 888

EMAIL: hola@monstershop.eu

Para consultas sobre este dispositivo, la garantía, devoluciones o denuncias de fallos por favor use los siguientes detalles.

#### DEPARTAMENTO DE SOPORTE

TEL: 01347 878 887

EMAIL: help@monstershop.co.uk

Für Informationen bezüglich dieses Geräts oder anderer produkte aus unserer Monster-Abteilung, benutzen sie die folgenden unten aufgeführten angaben.

#### VERKAUFSABTEILUNG

TEL: 01347 878 888

EMAIL: hallo@monstershop.eu

Für fragen über dieses gerät, die garantie, rückgaben oder bei störungen, benutzen sie die folgenden unten aufgeführten angaben.

#### SUPPORT-ABTEILUNG

TEL: 01347 878 887

EMAIL: help@monstershop.co.uk

Per informazioni riguardanti questo dispositivo o altri prodotti dalle categorie Monster utilizzare i dettagli sotto riportati.

#### DIPARTIMENTO VENDITE

TEL: 01347 878 888

EMAIL: ciao@monstershop.eu

Per domande riguardo dispositivo, garanzia, reso o per riferire di guasti, utilizzare i dettagli sotto riportati.

#### DIPARTIMENTO SUPPORTO

TEL: 01347 878 887

EMAIL: help@monstershop.co.uk

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